



Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/044,539 |
| Filing Date | January 11, 2002 |
| First Named Inventor | Cech, Thomas |
| Art Unit | 1646 |
| Examiner Name | |
| Attorney Docket Number | 015389-002630US |

U.S. PATENT DOCUMENTS+

| Examiner Initials* | Cite No. ¹ | Document Number | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|-----------------|-----------------------------------|--------------------------------|--|---|
| | | Number | Kind Code ² (if known) | | | |
| LCL | A1 | US-5,597,897 | | 01-28-1997 | Diamond | |
| LCL | A2 | US-5,917,025 | | 06-29-1999 | Collins | |
| LCL | A3 | US-6,166,178 | | 12-26-2000 | Cech et al. | |
| LCL | A4 | US-6,309,867 | | 10-30-2001 | Cech et al. | |
| LCL | A5 | US-6,337,200 | | 01-08-2002 | Morin | |
| LCL | A6 | US-6,475,789 B1 | | 11-05-2002 | Cech et al. | |
| LCL | A7 | US-6,610,839 B1 | | 08-26-2003 | Cech et al. | |
| LCL | A8 | US-6,617,110 B1 | | 09-09-2003 | Cech et al. | |

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| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ³ |
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| LCL | B1 | GB | 2 317 891 | A | 04-08-1998 | | | <input type="checkbox"/> |
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| LCL | B9 | PCT | WO 00/46355 | A2 | 08-10-2000 | | | <input type="checkbox"/> |

Examiner Signature

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7-22-04

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Sheet

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NON PATENT LITERATURE DOCUMENTS

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|---------------------|-----------------------|---|--------------------------|
| LNL | C1 | ADAMSON, D. et al. "Significant Telomere Shortening in Childhood Leukemia", <i>Cancer Genet. Cytogenet.</i> , 1992; pp. 204-206, Vol. 61 | <input type="checkbox"/> |
| LNL | C2 | AUTEXIER, CHANTAL, et al., "Telomerase and cancer: revisiting the telomere hypothesis; Trends in Biochemical Sciences", 1996, pp. 387-391, Vol. 10, No. 21. | <input type="checkbox"/> |
| LNL | C3 | AVILION, A., "Characterization and expression of human telomerase," <i>Dissertation Abstracts International</i> , 1996, pp. 5930-B, Vol. 56, No. 11 | <input type="checkbox"/> |
| LNL | C4 | BARINGA, MARCIA, "The Telomerase Picture Fills In", <i>Science</i> , April 25, 1997; pp. 528-529, Vol. 276 | <input type="checkbox"/> |
| LNL | C5 | CHIU, et al. "Replicative senescence and cell immortality: the role of telomeres and telomerase (44075)", <i>Proc. Soc. Exp. Bio. Med.</i> , 1997, pp. 99-106, Vol. 214. | <input type="checkbox"/> |
| LNL | C6 | CHONG, L. et al. "A Human Telomeric Protein", <i>Science</i> , Dec. 1995, pp. 1663-1667, Vol. 270. | <input type="checkbox"/> |
| LNL | C7 | COLLINS, KATHLEEN, "Structure and function of telomerase", <i>Current Opinion in Cell Biology</i> , 1996, pp. 374-380, Vol. 8 | <input type="checkbox"/> |
| LNL | C8 | COUNTER, C. et al. "Telomerase Activity in Normal Leukocytes and in Hematologic Malignancies" <i>Blood</i> ; May 1, 1995; pp. 2315-2320, Vol. 85, No. 9. | <input type="checkbox"/> |
| LNL | C9 | COUNTER, C. et al. "Telomere shortening associated with chromosome instability is arrested in immortal cells which express telomerase activity", <i>The EMBO Journal</i> ; 1992, pp. 1921-1929, Vol. 11; No. 5, Oxford University Press. | <input type="checkbox"/> |
| LNL | C10 | DE LANGE, T. et al. "Structure and Variability of Human Chromosome Ends"; <i>Molecular and Cellular Biology</i> ; February 1990; pp. 518-527, Vol. 10, No. 2. | <input type="checkbox"/> |
| LNL | C11 | FLAVELL, R. & MATHIAS, R. "Prospects for transforming monocot crop plants", <i>Nature</i> , 12 Jan. 1984, pp. 108-109, Vol. 307. | <input type="checkbox"/> |
| LNL | C12 | FRESHNEY, <i>Culture of Animal Cells, A Manual Basic Technique</i> , p. 4, Alan R. Liss, Inc. New York, 1983. | <input type="checkbox"/> |
| LNL | C13 | Genbank Accession No. A46242; September 21, 1993 | <input type="checkbox"/> |
| LNL | C14 | Genbank Accession No. L38903; January 30, 1995 | <input type="checkbox"/> |
| LNL | C15 | Genbank Accession No. Q06163; November 01, 1995 | <input type="checkbox"/> |
| LNL | C16 | Genbank Accession No. S39696; October 07, 1994 | <input type="checkbox"/> |

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|---------------------|-----------------------|---|--------------------------|
| LDL | C17 | Genbank Accession No. S53396; May 5, 1995 | <input type="checkbox"/> |
| LDL | C18 | GenBank Accession No. U95964; May 5, 1997 | <input type="checkbox"/> |
| LDL | C19 | GenBank Accession No. W70315; June 19, 1996 | <input type="checkbox"/> |
| LDL | C20 | GLASER, P. et al. "Bacillus subtilis genome project: cloning and sequencing of the 97 kb region from 325° to 333° Molecular Microbiology, 1993, pp. 371-384, Vol. 10, No. 2. | <input type="checkbox"/> |
| LDL | C21 | GOODMAN, R. et al. "Gene Transfer in Crop Improvement", Science, 3 April 1997, pp. 48-54, Vol. 236. | <input type="checkbox"/> |
| LDL | C22 | GREIDER, C. "Telomeres, Telomerase and Senescence"; BioEssays; 1990; pp. 363-369, Vol. 12, No. 8. | <input type="checkbox"/> |
| LDL | C23 | HARLEY, C. "Telomere loss: Mitotic clock or genetic time bomb?" Mutation Research; 1991; pp. 271-282, Vol. 256, Elsevier Science Publishers. | <input type="checkbox"/> |
| LDL | C24 | HARLEY, C. & VILLEPONTEAU, B. "Telomeres and telomerase in aging and cancer" Current Opinion in Genetics and Development; 1995, pp. 249-255, Vol. 5. | <input type="checkbox"/> |
| LDL | C25 | HARLEY, C. et al. "Telomeres shorten during ageing of human fibroblasts", Nature, 31 May 1990; pp. 458-460, Vol. 345. | <input type="checkbox"/> |
| LDL | C26 | HASTIE, N. et al. "Telomere reduction in human colorectal carcinoma and with ageing", Nature, 30 August 1990, pp. 866-868, Vol. 346. | <input type="checkbox"/> |
| LDL | C27 | HEALY, K. C. "Telomere dynamics and telomerase activation in tumor progression: prospects for prognosis and therapy" Oncol. Res., 1995, pp. 121-130, Vol. 7 | <input type="checkbox"/> |
| LDL | C28 | HENDERSON, C. Cancer genetics gene regulates telomerase resulting in death of cancer cells; Gene Therapy Weekly, 11 September 1995. | <input type="checkbox"/> |
| LDL | C29 | HIYAMA, E. et. al. "Correlating telomerase activity levels with human neuroblastoma outcomes"; Nature Medicine; 3 March 1995; pp. 249-255, Vol. 1, No. 3. | <input type="checkbox"/> |
| LDL | C30 | HOLTZMANN, K. et al. "Telomeric Associations and Loss of Telomeric DNA Repeats in Renal Tumors", Genes, Chromosomes & Cancer, 1993, pp. 178-181, Vol. 6. | <input type="checkbox"/> |
| LDL | C31 | JÄHNE, A. et al. "Genetic Engineering of Cereal Crop Plants: A Review", Euphytica, 1995, pp. 35-44, Vol. 85, Kluwer Academic Publishers, Netherlands. | <input type="checkbox"/> |
| LDL | C32 | JOLLIFFE, L.K. "Humanized antibodies: enhancing therapeutic utility through antibody engineering", Int. Rev. Immunol., 1993, pp. 241-250, Vol. 10 | <input type="checkbox"/> |
| LDL | C33 | KIM, N. et al. "Specific Association of Human Telomerase Activity with Immortal Cells and Cancer", Science, 23 December 1994, pp. 2011-2014, Vol. 266. | <input type="checkbox"/> |

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|---------------------|-----------------------|---|--------------------------|
| LDL | C34 | KLINGELHUTZ, A. et al. "Restoration of Telomeres in Human Papillomavirus- Immortalized Human Anogenital Epithelial Cells"; <i>Molecular and Cellular Biology</i> , Feb. 1994, pp. 961-969, Vol. 14, No. 2. | <input type="checkbox"/> |
| LDL | C35 | LEWIS, A. & CROWE, J.S. "Generation of humanized monoclonal antibodies by 'best fit' framework selection and recombinant polymerase chain reaction", <i>Year Immunol.</i> , 1993, pp. 110-118, Vol. 7 | <input type="checkbox"/> |
| LDL | C36 | Linking telomerase and tumors; <i>Genesis Report-Dx</i> ; 1995; Vol. 4, No. 6; Publisher Genesis Group Associates. | <input type="checkbox"/> |
| LDL | C37 | LUNDBLAD, V. & BLACKBURN, E., Letter to the Editor entitled, "RNA-Dependent Polymerase Motifs in EST1: Tentative Identification of a Protein Component of an Essential Yeast Telomerase". <i>Cell</i> , 23 Feb. 1990, pp. 529-530, Vol. 60. | <input type="checkbox"/> |
| LDL | C38 | LUSTIG, ARTHUR J., "The identification of telomerase subunits: catalysing telomere research", <i>Trends in Cell Biology</i> ; August 1997, pp. 299-302, Vol. 7. | <input type="checkbox"/> |
| LDL | C39 | MALICKI, J. et al. "A human HOX4B regulatory element provides head-specific expression in <i>Drosophila</i> embryos", <i>Nature</i> , 23 July 1992, pp. 345-357, Vol. 358. | <input type="checkbox"/> |
| LDL | C40 | NAKAYAMA, J. et al. "Cloning of a Candidate cDNA Encoding a Proteinaceous Component of Mammalian Telomerase", <i>Molecular Biology Cell Abstracts Supp.</i> 7, 1996, p. 875-884, 286a Section 1654. | <input type="checkbox"/> |
| LDL | C41 | NATARAJAN et al. "Major histocompatibility complex determinants select T-cell receptor alpha chain variable region dominance in a peptide-specific response." <i>Proc. Natl. Acad. Sci.</i> , Oct 1992, pp. 8874-8878, Vol. 89. | <input type="checkbox"/> |
| LDL | C42 | PASZKOWSKI, JERZY et al. "Direct gene transfer to plants," <i>The EMBO Journal</i> , 1984, pp. 2717-2722, Vol. 3, No. 12. | |
| LDL | C43 | POTRYKUS, I. et al. "Direct gene transfer to cells of a graminaceous monocot", <i>Mol. Gen. Genet.</i> , 1985, pp. 183-188, Vol. 199. | <input type="checkbox"/> |
| LDL | C44 | RAYMOND, E., et al.; Agents that target telomerase and telomeres; <i>Curr. Opin. Biotechnol.</i> ; 1996; 7:583-91 | <input type="checkbox"/> |
| LDL | C45 | RHYU, M.S. "Telomeres, telomerase, and immortality"; <i>J. Natl. Cancer Inst.</i> ; 21 June 1995; pp. 884-894, Vol. 87, No. 12. | <input type="checkbox"/> |
| LDL | C46 | SCHENA et al. "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes", <i>Proc. Natl. Acad. Sci.</i> , Oct. 1996, pp. 10614-10619, Vol. 93, USA. | <input type="checkbox"/> |
| LDL | C47 | SCHWARTZ, H. et al. "Telomere Reduction in Giant Cell Tumor of Bone and with Aging"; <i>Cancer Genet Cytogenet</i> ; 1993; pp. 132-138, Vol. 71, Elsevier Science Publishing Co., Inc., New York, U.S.A. | <input type="checkbox"/> |
| LDL | C48 | SINGER, M. "Unusual Reverse Transcriptases", <i>Journal of Biological Chemistry</i> ; 1995, pp. 24623-23626, Vol. 270, No. 42 | <input type="checkbox"/> |

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| Examiner Signature | <i>James D. Lett</i> | Date Considered | 7.22.04 |
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Sheet 5 of 5

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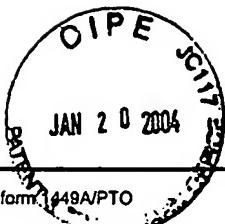
NON PATENT LITERATURE DOCUMENTS

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|---------------------|-----------------------|---|--------------------------|
| LNL | C49 | SMITH, J. & YEH, G. "Telomere Reduction in Endometrial Adenocarcinoma"; <i>Am. J. Obstet. Gynecol.</i> ; Dec. 1992; pp. 1883-1887, Vol. 167, No. 6 | <input type="checkbox"/> |
| LNL | C50 | TAIT, J. et al. "Structure and Polymorphisms of the Human Annexin III (ANX3) Gene", <i>Genomics</i> , 1993, pp. 79-86, Vol. 18, No. 1 | <input type="checkbox"/> |
| LNL | C51 | WINTER, G. & HARRIS, W. "Humanized Antibodies", <i>Trends Pharmacol. Sci.</i> , May 1993, pp. 139-143, Vol. 14. | <input type="checkbox"/> |
| LNL | C52 | WIRTH, URS et al; "Immediate-Early RNA 2.9 and Early RNA 2.6 of Bovine Herpesvirus 1 Are 3' Coterminal and Encode of Putative Zinc Finger Transactivator Protein"; <i>Journal of Virology</i> , May 1992; pp. 2763-2772, Vol. 66, No. 5. | <input type="checkbox"/> |
| LNL | C53 | ZAUG, ARTHUR et al., "Method for determining RNA 3' ends and application to human telomerase RNA", <i>Nucleic Acids Research</i> , 1996, pp. 532-533, Vol. 24, No. 3. | <input type="checkbox"/> |

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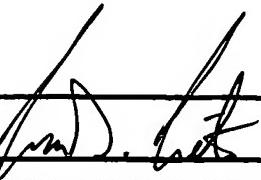
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| LCL | A12 | US 2003-0096344 A1 | 05-22-2003 | Cech et al. | |
| LCL | A13 | U.S. Application No. 09/492,503 | | Cech et al. | |
| LCL | A14 | U.S. Application No. 09/721,477 | | Cech et al. | |
| LCL | A15 | U.S. Application No. 09/721,506 | | Cech et al. | |
| LCL | A16 | U.S. Application No. 09/674,584 | | Cech et al. | |

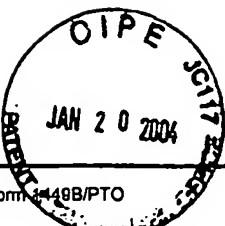
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| LCL | C1 | ADAMS, MARK et al. "Initial Assessment of Human Gene Diversity and Expression Patterns Based Upon 83 Million Nucleotides of cDNA Sequence" <i>The Genome Directory: Supplement to Nature</i> 28 September 1995, 1995, pp. 3-174, Vol. 377, Issue 6547S. | | |
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